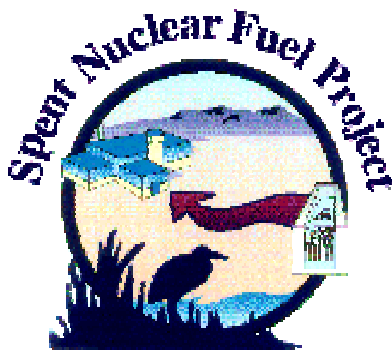




Hanford Spent Nuclear Fuel Project



2/15/2014 2:10

National Spent Nuclear Fuel Strategy Meeting

Larry Earley

DOE Richland Operations Office

January 13, 2004



Hanford Spent Nuclear Fuel

- **K Basins Fuel Removal Progress**
 - ***Fuel Removal Status***
 - ***Production Schedules***
- **Other Fuel Consolidation at Hanford Site**
 - ***Single-Pass Production Reactor Fuel***
 - ***Shippingport Fuel***
 - ***Fast Flux Test Facility Fuel***





K Basins Fuel Removal Progress

- **Fuel removal from K Basins (~2106 MTHM) scheduled to complete by July 31, 2004**
 - ***1605 MTHM of fuel from K Basins loaded into 295 MCOs as of January 6, 2004***
 - ***Small quantity of additional fuel may be discovered during sludge removal***
- **Scrap processing initiated as part of fuel removal**
 - ***Approximately 20,000 pounds of scrap collected to date***
 - ***Currently anticipate approximately 50 scrap baskets by completion of fuel removal***





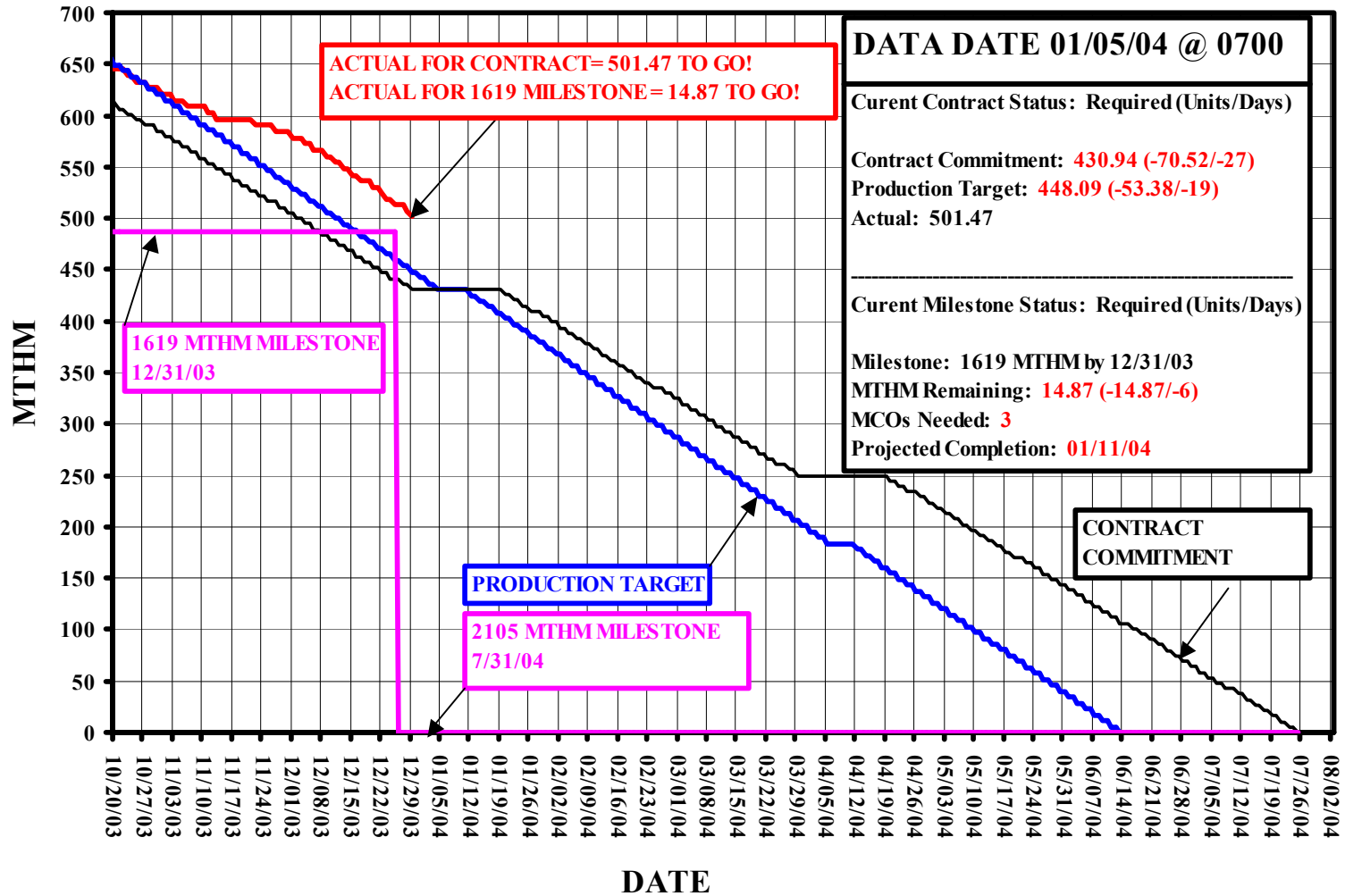
K Basins Fuel Removal Progress

- **KE to KW Basin fuel transfers currently targeted to complete in March, 2004**
 - ***219 transfers completed as of January 5, 2004***
- **MCO welding at the Canister Storage Building scheduled to complete by September 30, 2005**
 - ***122 MCOs welded as of January 5, 2004***
- **Alternate sludge removal path from K Basins under consideration**
 - ***Alternate sludge removal paths would accelerate treatment for disposition***
 - ***Baseline change request being developed***

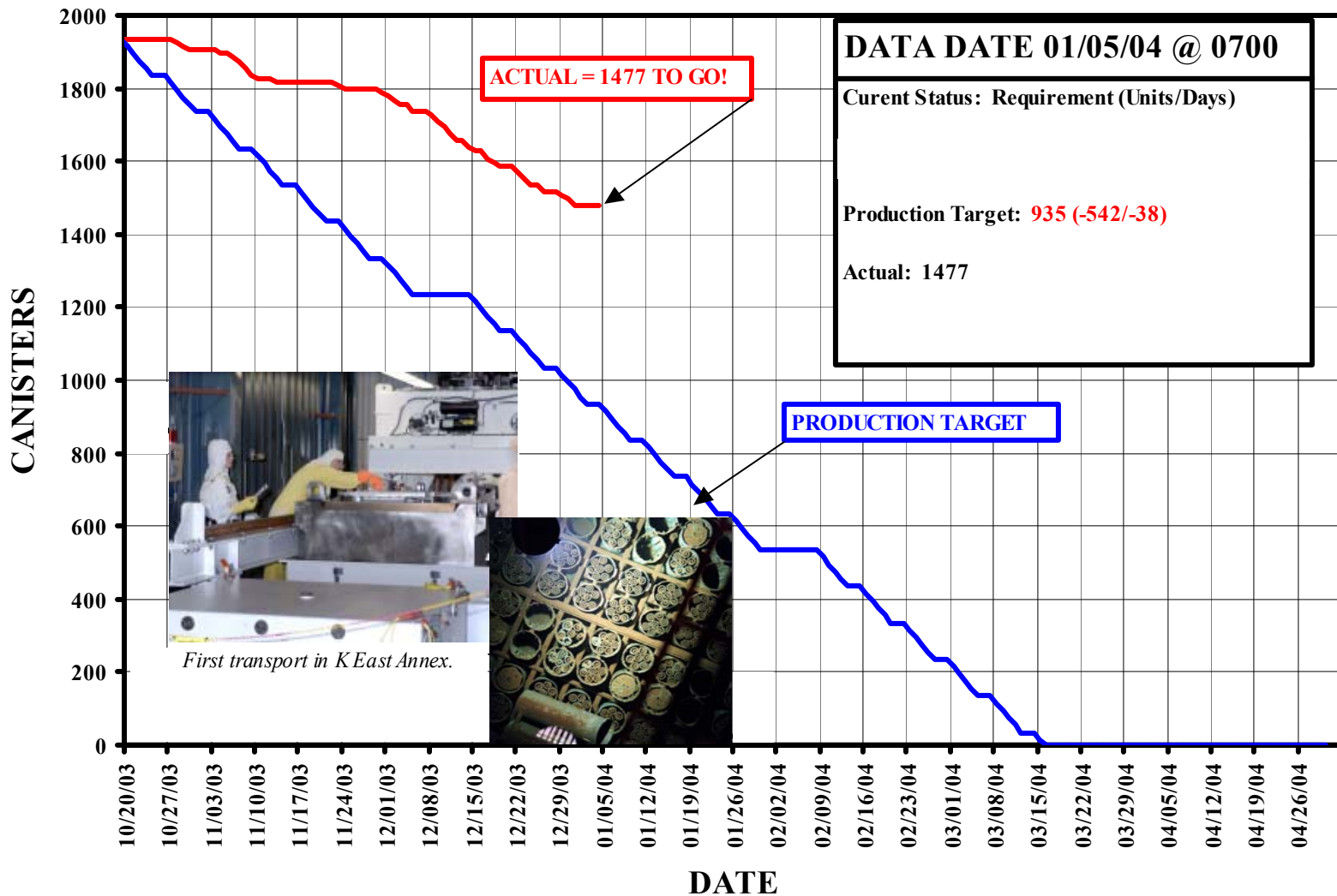




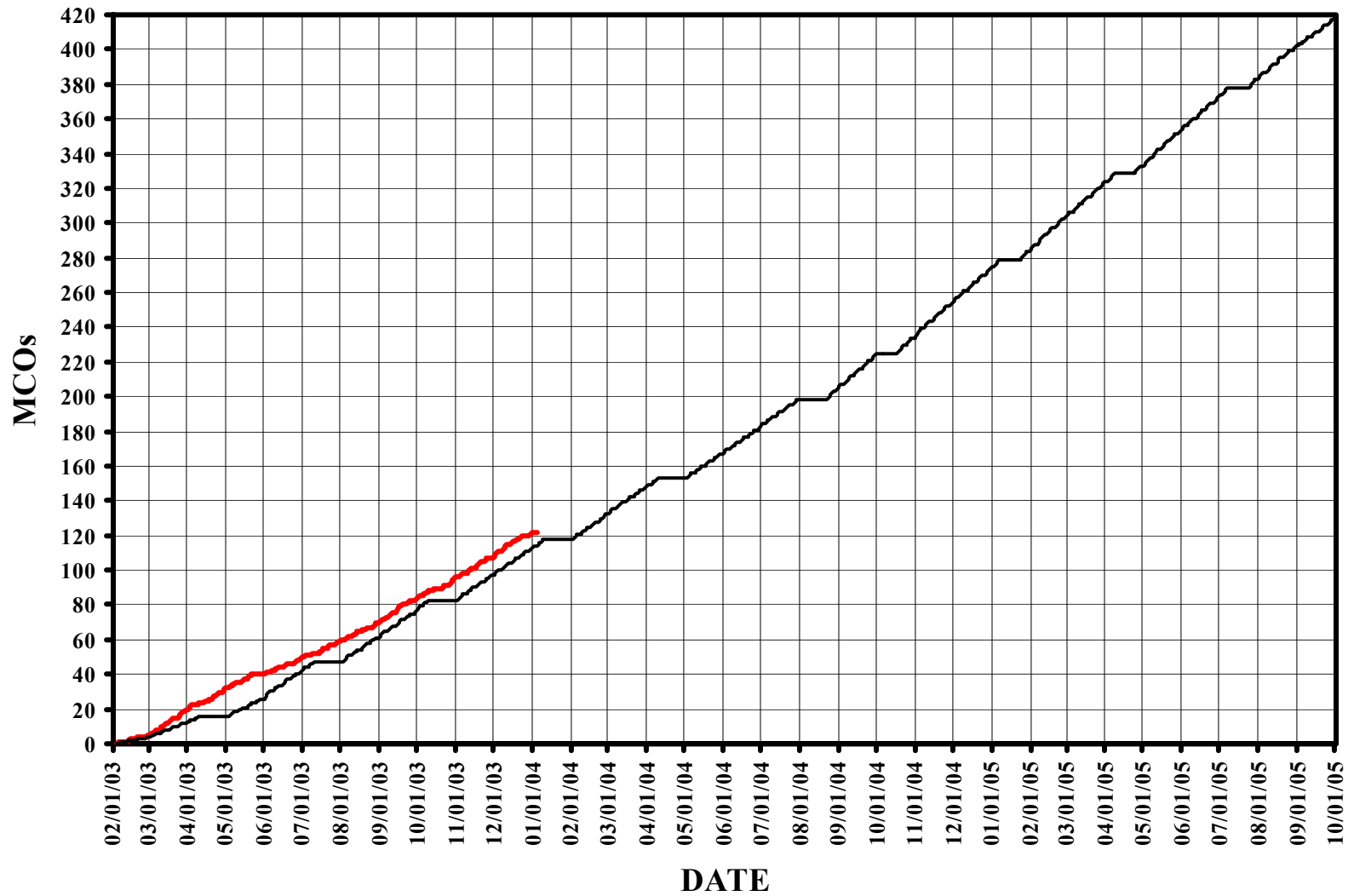
MTHM REMAINING



FTS CANISTERS REMAINING



MCO WELDING





Other Fuel Consolidation

- **Final SPR fuel transfer to K Basins anticipated in January 2004 (9 elements from H/D Reactors)**
- **10 of 16 Shippingport Blanket Fuel Assembly MCOs loaded and dried. Completion of all fuel transfers from T Plant to CSB anticipated by September 2004**
- **Fast Flux Test Facility Fuel de-inventory scheduled to complete non-sodium bonded fuel in Fiscal Year 2006**
 - ***22 Interim Storage Casks (ISCs) of Cat IV fuel off-loaded and stored at 400 Area ISA***
 - ***3 ISCs of Cat I-III irradiated fuel off-loaded and stored at PFP; 5 ISCs of unirradiated fuel off-loaded and stored at PFP***
 - ***22 Additional Interim Storage Casks being procured for remaining fuel inventory at FFTF.***





Other Fuel Consolidation

- **Fast Flux Test Facility Fuel (continued)**
 - ***Sodium bonded fuel treatment under evaluation***
 - Current ROD identifies treatment at ANL-E
 - On-site treatment at Hanford 300 Area under consideration; could extend overall de-inventory schedule
 - Decision needed on whether treatment necessary
 - ***Storage of unirradiated FFTF fuel under evaluation***
 - Current baseline to ship to SRS by end of 2005 not attainable due to lack of certified shipping system
 - Baseline change being developed for shipment to SRS from PFP at later date
 - If material remains on-site for protracted period, CSB is the only identified long term storage option

